

OT FIT 50/220...240/350 D L

OPTOTRONIC FIT D L | Linear / Area Constant Current – Non dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 50 W
- Supply voltage: 220...240 V
- Available with output current range: up to 350 mA
- Non-isolated drivers

Product family benefits

- Small housing design
- Fixed current
- Lifetime: up to 100,000 h (temperature at $T_c = 65\text{ °C}$, max. 10 % failure rate)
- High quality of light thanks to low output ripple current
- High efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Areas of application

- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I

Technical data

Electrical data

| | |
|--|---------------------------|
| Nominal input voltage | 220...240 V |
| Mains frequency | 0/50/60 Hz |
| Input voltage AC | 198...264 V ¹⁾ |
| Input voltage DC | 176...276 V |
| Current set | Fixed current |
| Total harmonic distortion | < 20 % |
| Power factor λ | > 0.95 ²⁾ |
| Efficiency in full-load | 90 % ³⁾ |
| Device power loss | 5.0 W ⁴⁾ |
| Protective conductor current | <2.0 mA |
| Max. ECG no. on circuit breaker 10 A (B) | 35 |
| Max. ECG no. on circuit breaker 16 A (B) | 56 |
| Max. ECG no. on circuit breaker 25 A (B) | - |
| Surge capability (L/N-Ground) | 2 kV |
| Surge capability (L-N) | 1 kV |
| Nominal output voltage | 54...150 V |
| U-OUT (working voltage) | < 250 V |
| Nominal output current | 350 mA ⁵⁾ |
| Output current tolerance | ± 10 % |
| Output ripple current (100 Hz) | < 10 % |
| Output PSTLM | ≤ 1 |
| Output SVM | ≤ 0.4 |
| Nominal output power | 18.9...52.5 W |
| Maximum output power | 52.5 W |
| Galvanic isolation | Non isolated |
| Galvanic isolation primary/secondary | - |
| Default output current | 350 mA |

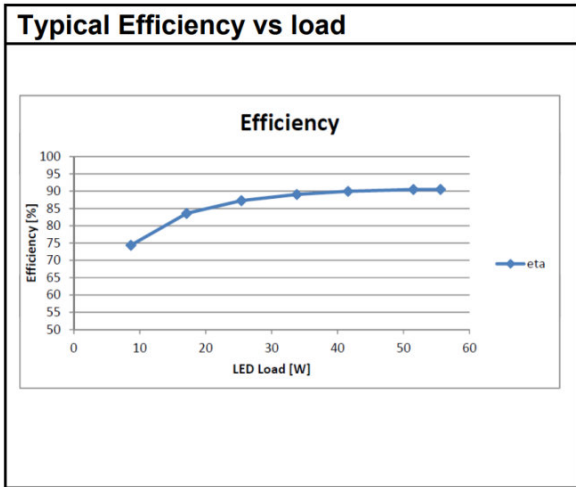
¹⁾ Permitted voltage range

²⁾ Full load at 230 V

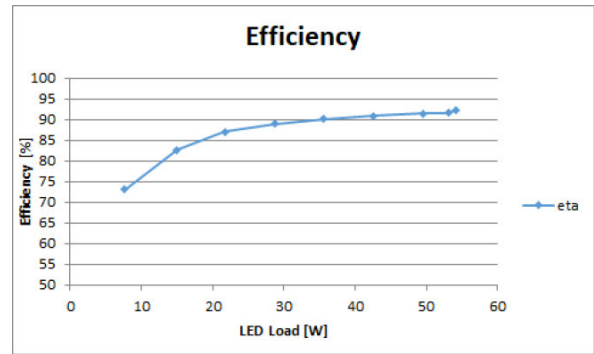
³⁾ at 230 V, 50 Hz

⁴⁾ Maximum

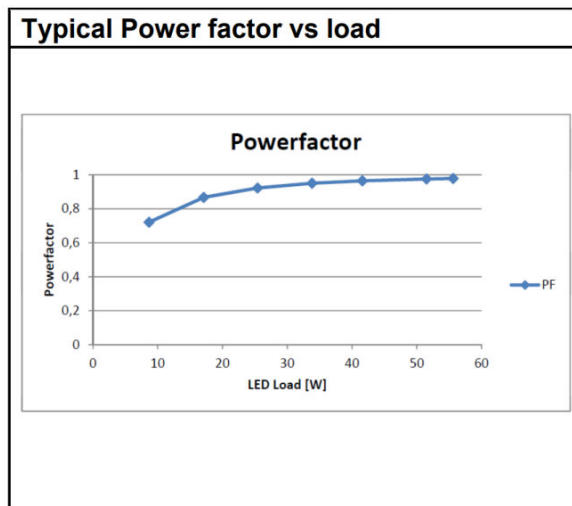
⁵⁾ ± 10 %



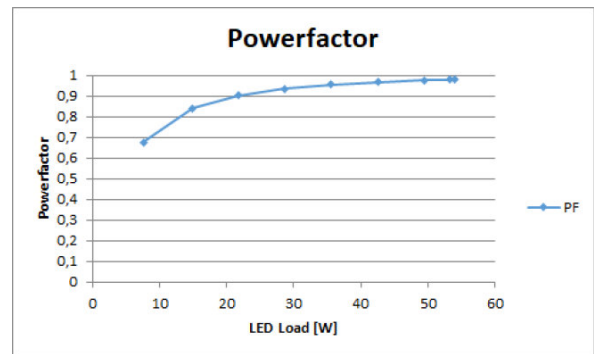
OT FIT 50220-240350 D L Typical Efficiency vs. Load (230 V 50 Hz)



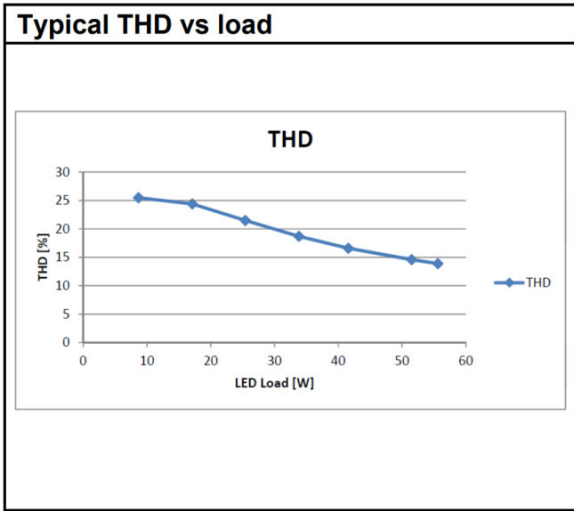
OT FIT 50220-240D L Typical Efficiency vs. Load (230 V 50 Hz)



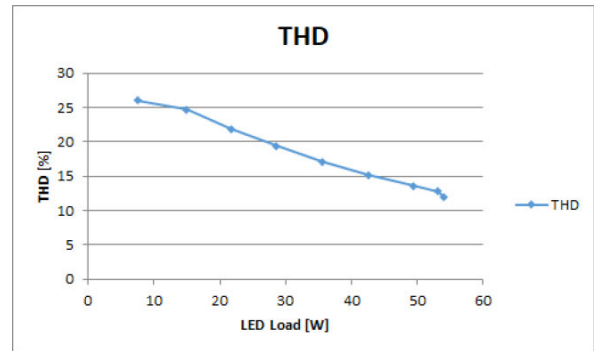
OT FIT 50220-240350 D L Typical Power Factor vs. Load



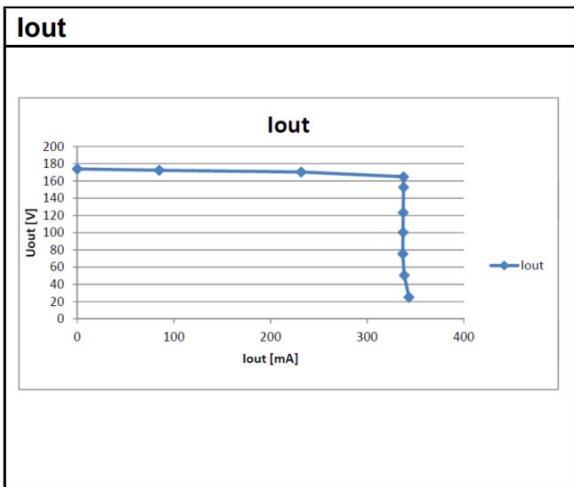
OT FIT 50220-240D L Typical Power Factor vs. Load



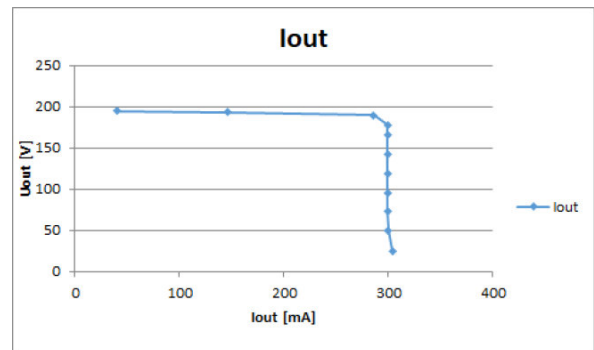
OT FIT 50220-240350 D L Typical THD Vs Load



OT FIT 50220-240D L Typical THD Vs Load

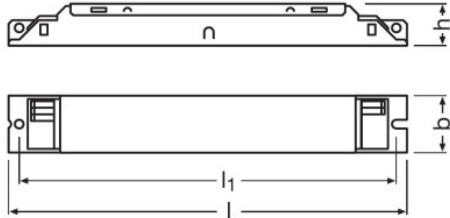


OT FIT 50220-240350 D L Typical Iout vs Rset (LEDset2 mode)



OT FIT 50220-240D L Typical Iout vs Rset (LEDset2 mode)

Dimensions & weight



| | |
|--------------------------------------|---|
| Mounting hole spacing, length | 200.0 mm |
| Product weight | 125.00 g |
| Cable cross-section, input side | 0.5...1.5 mm ² ¹⁾ |
| Cable cross-section, output side | 0.5...1.5 mm ² ¹⁾ |
| Wire preparation length, input side | 8.5...9.5 mm |
| Wire preparation length, output side | 8.5...9.5 mm |
| Length | 210.0 mm |
| Width | 30.0 mm |
| Height | 21.0 mm |

¹⁾ Solid or flexible leads

Colors & materials

| | |
|-----------------|-------|
| Casing material | Metal |
|-----------------|-------|

Temperatures & operating conditions

| | |
|--|------------------------|
| Ambient temperature range | -15...+50 °C |
| Maximum temperature at tc test point | 75 °C ¹⁾ |
| Max.housing temperature in case of fault | 110 °C |
| Temperature range at storage | -25...85 °C |
| Permitted rel. humidity during operation | 5...85 % ²⁾ |

¹⁾ Maximum at the T_c-point

²⁾ Maximum 56 days/year at 85 %

Lifespan

| | |
|--------------|--------------------------------|
| ECG lifetime | 50000 / 100000 h ¹⁾ |
|--------------|--------------------------------|

¹⁾ At maximum T_c = 75°C / 10% failure rate / At T_c = 65°C / 10% failure rate

Capabilities

Product datasheet

| | |
|--|----------------------|
| Dimmable | No |
| Overheating protection | Automatic reversible |
| Overload protection | Automatic reversible |
| Short-circuit protection | Automatic reversible |
| No-load proof | Yes |
| Intended for no-load operation | No |
| Max. cable length to lamp/LED module | 2.0 m ¹⁾ |
| Suitable for fixtures with prot. class | I |
| Type of connection, input side | Push terminal |
| Type of connection, output side | Push terminal |
| Number of channels | 1 |

¹⁾ Output wires must be routed as close as possible to each other

Certificates & standards

| | |
|---------------------------|---|
| Approval marks – approval | CE |
| Standards | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384/Acc. to EN 62386 |
| Protection class | I |
| Type of protection | IP20 |


Logistical data

| | |
|----------------|--------------|
| Commodity code | 850440839000 |
|----------------|--------------|

Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | |
|---|--|
| Date of Declaration | 30-09-2022 |
| Primary Article Identifier | 4052899222595 |
| Candidate List Substance 1 | Lead |
| CAS No. of substance 1 | 7439-92-1 |
| Safe Use Instruction | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| Declaration No. in SCIP database | f13b8a82-0b84-431a-98bb-bf6d9ce5f9f1 |

Download Data

| File |
|---|
|  Certificates INOTEC Certificate OT FIT 50350 D L |

Product datasheet

| | |
|---|--|
|  | Certificates INOTEC Certificate OT FIT 50350 D L appendix |
|  | Certificates OT ENEC 40038085 010322 |
|  | Certificates CCC certificate China Origin |
|  | Certificates LED drivers EMC 40011668 300922 |
|  | Certificates 544466_CD Test Certificate |
|  | Certificates CCC Certificate 2017171002001468 |
|  | Declarations of conformity OT FIT D L CE 4292770 150222 |
|  | Declarations of conformity OT FIT D L UK DoC 4289774 140222 |
|  | CAD data OT FIT D L IGS 261119 |
|  | CAD data OT FIT D L STEP 261119 |
|  | CAD Data 2-dim OT FIT D L CAD2PDF 261119 |
|  | CAD data 3-dim OT FIT D L CAD3PDF 261119 |

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|--------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899222595 | OT FIT 50/220...240/350 D L | Shipping carton box 20 | 234 mm x 161 mm x 101 mm | 3.81 dm ³ | 2665.00 g |

Product datasheet

Logistical Data

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.